

Spring Boot 3 Fundamentals

Creating a Spring Boot Application



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Spring Boot

The basis for modern Spring-based applications

Makes it easy to create standalone applications that
are ready to run in production



Version Check



This version was created by using:

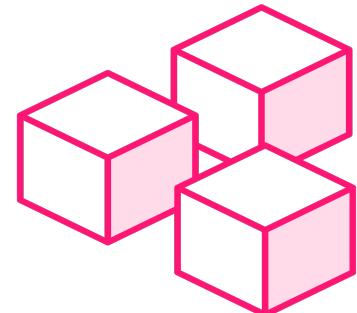
- Spring Framework 6.0.9
- Spring Boot 3.1.0



Prerequisites



Experience with the Java programming language



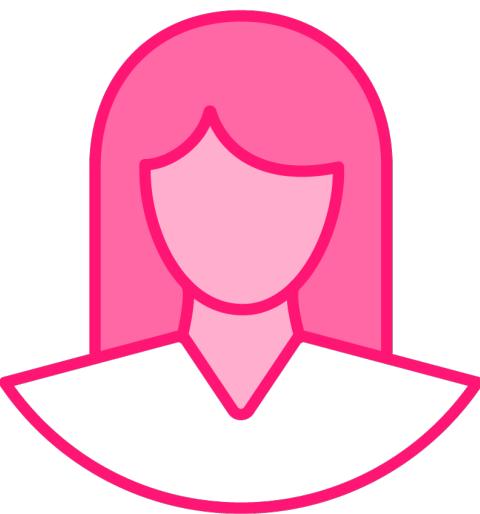
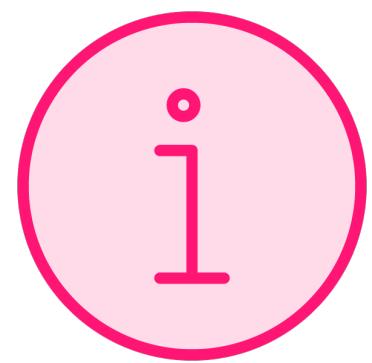
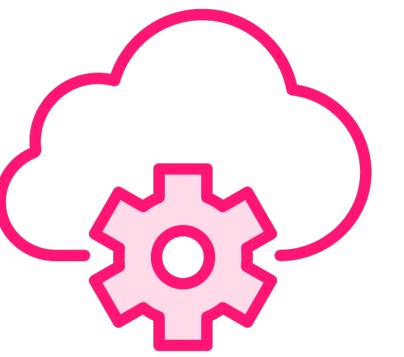
Understand the main concepts of the core Spring Framework



Optional: Understand the basics of Docker



Demo Scenario



Overview



Creating a Spring Boot Application

- Setting Up
- What is Spring Boot?
- Creating an Application
- Understanding the Application

Building REST Web Services

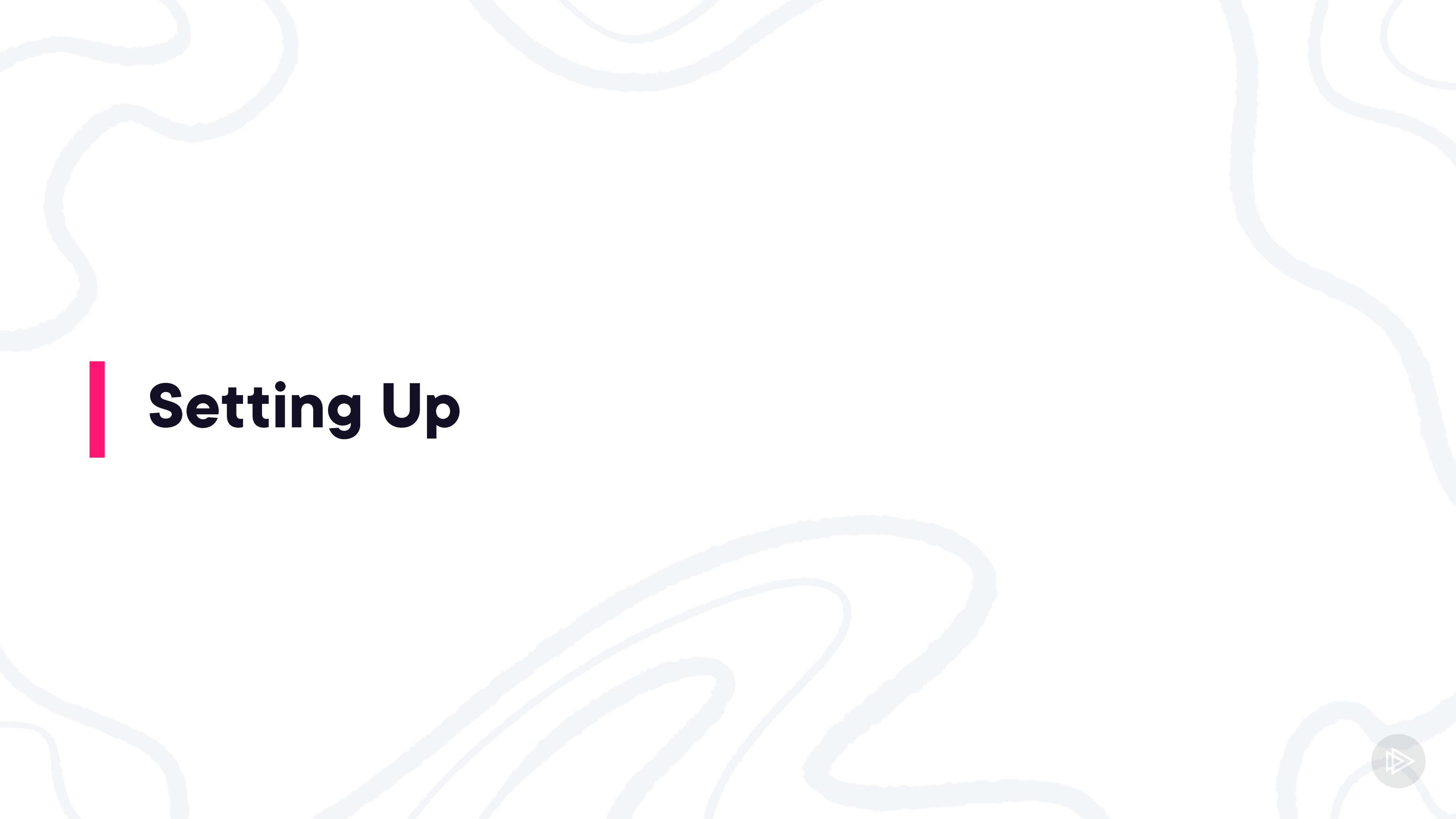
Accessing Databases with Spring Data

Calling REST Web Services

Monitoring and Managing

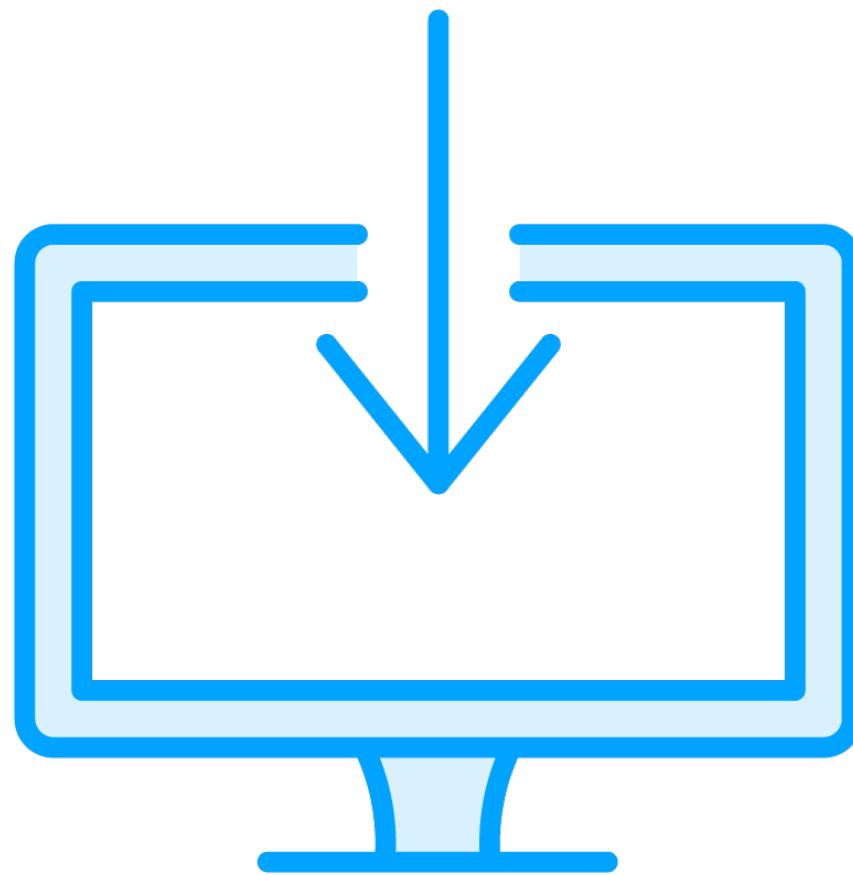
Packaging and Deploying





Setting Up

Setting Up



JDK 17 or newer

IDE or text editor

- IntelliJ, Visual Studio Code, Eclipse
- spring.io/tools

Docker

- Docker Desktop
- [docker.com](https://www.docker.com)



What Is Spring Boot?



Spring Boot

Make it easy to create standalone Spring-based applications
that are ready to run in production

Autoconfiguration

Externalized configuration

Monitoring

Packaging



Reference and API Documentation

spring.io/projects/spring-boot



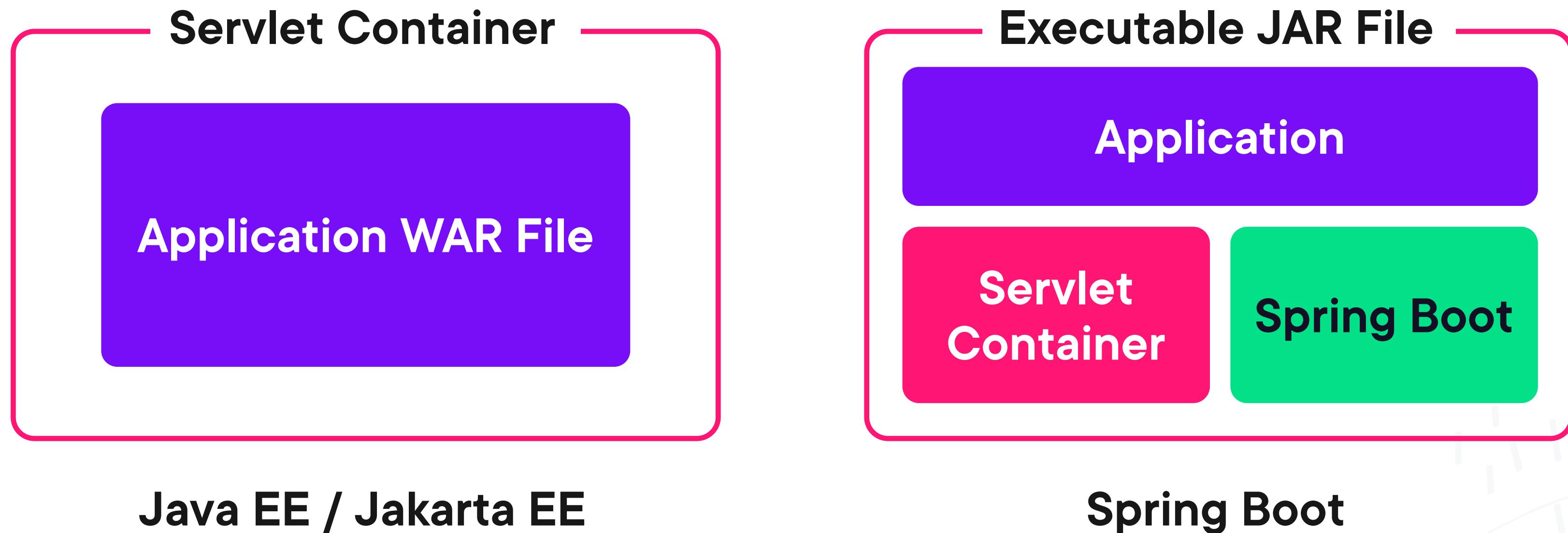


Creating an Application with Spring Initializr

- start.spring.io



Jakarta EE vs. Spring Boot Deployment Model



| Spring Boot Autoconfiguration



Autoconfiguration Conditions



Apache Tomcat
Start Tomcat as an
embedded web server



JDBC Driver
Create a DataSource that
connects to the database



Summary



Creating an Application with Spring Initializr

- Spring Boot parent POM
- Starter dependencies
- Maven plugin

Understanding the Application

- `@SpringBootApplication`
- Autoconfiguration
- Embedded Tomcat web server



Up Next:

Building REST Web Services

